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DIGITAL TV

Digital High Definition Satellite Receiver SRT 7300 CI+

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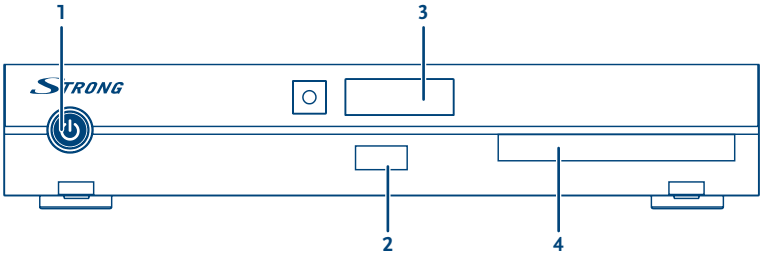


Fig. 1

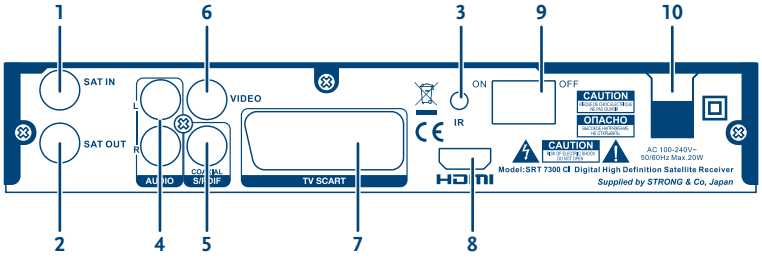


Fig. 2

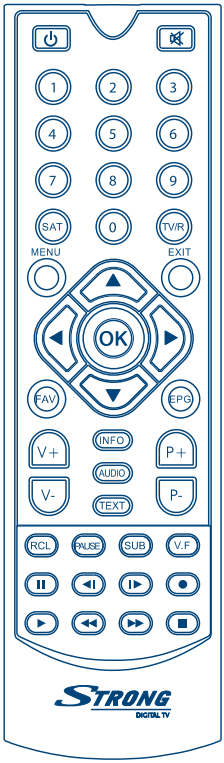


Fig. 3

Fig. 4

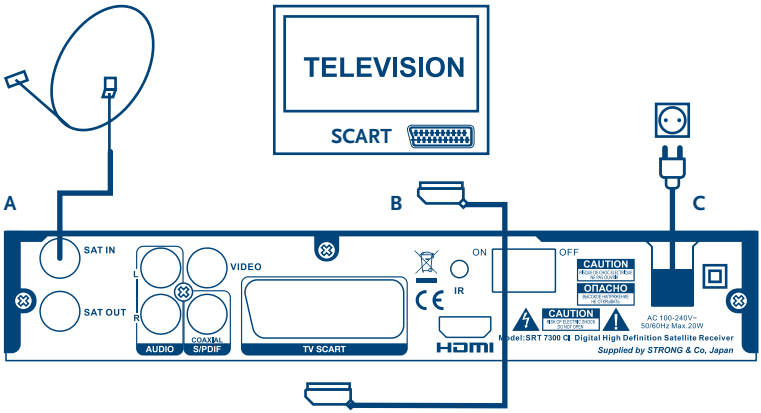


Fig. 5

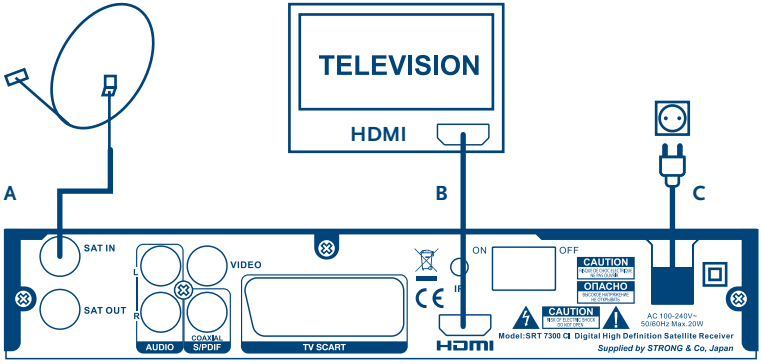
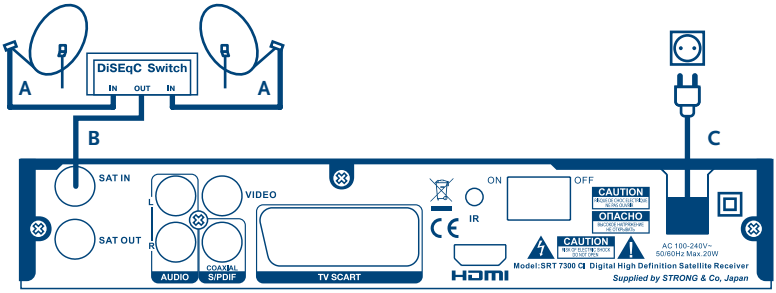


Fig. 6



STRONG DIGITAL TV

English

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STRONG declares that this item complies with the basic requirements and other relevant regulations of directives CE 2004/108/EEC and 73/23EEC; RoHS 2002/95EEC

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HOTLINE
0180 501 49 91*
* €0,14/Min. from German wired line
* €0.42/Min. max. from mobile network
0820 400 150*
* €0,12/Min. from Austrian wired line
0826 029 928*
* €0,14/Min. from French wired line

per March 2010

1.0 INTRODUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:

In a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

- To direct sunlight or any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
- Do not use a damaged power cord. It may cause a fire or an electrical shock. Do not touch a power cord with wet hands. It may cause an electric shock.
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

SAFETY PRECAUTIONS

- Never open the receiver cover. It is dangerous to touch the inside of the receiver due to high voltage currents and possible electrical hazards and your warranty will be void. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.
- If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. For transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:
Refer to the user manual of your TV and your antenna.
Make sure that the SCART cable and outdoor components are in a good condition and the SCART connections are well shielded

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

⚠ **WARNING**	Indicates warning information.
Tips	Indicates any other additional important or helpful information.
MENU	Represents a button on the remote control or the receiver **(Bold Character)**
Move to	Represents a menu item within a window. *(Italic Character)*

1.4 Accessories

- User's Manual
- 1 Remote control unit
- IR Extender
- 2x Batteries (AAA type)

Note: The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries.

1.5 Usage of external USB devices

It is recommended to use USB 2.0 storage devices. If your device is not compatible to USB 2.0 specifications, recording, playback and other multimedia functions of the receiver would not work properly.
STRONG cannot guarantee compatibility to all types of USB storage devices.
It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.
Please ensure that either the USB device is already formatted to FAT/FAT32, or format the USB device via your receiver, refer to chapter 7.3.3 File Explorer for details.

2.0 YOUR RECEIVER

2.1 DEFAULT PIN-CODE: 0000

2.2 Front Panel

Fig.1

1. **Standby/ON switch** turns the receiver ON or to Standby
2. **USB connector** connect your USB device (stick, HDD, etc.) to this port
3. **4 digit LED display** displays channel number or time, depending on settings.
4. **CI slot** Common Interface slot for your decoder module

2.3 Rear Panel

Fig 2.

1.	**SAT IN**	To connect to the LNB of your satellite dish for reception of satellite broadcast signal
2.	**SAT OUT**	To loop through the satellite signal to a second receiver
3.	**AUDIO (L/R)**	To connect to the audio input of your HIFI or television
4.	**VIDEO (RCA)**	To connect to the RCA video input of your TV or VCR using an RCA cable
5.	**S/PDIF**	To connect to a digital or home cinema audio amplifier
6.	**TV SCART**	To connect to TV using a SCART cable
7.	**IR**	To connect the IR extender
8.	**HDMI**	To connect to the HDMI input of your TV using a good quality HDMI cable.
9.	**Power switch**	To switch the mains power ON or OFF
10.	**Power cord**	The receiver requires a mains voltage of 100 ~ 240 V AC 50 ~ 60Hz (auto selecting). Please check the local power conditions before connecting the receiver to the mains supply.

2.4 Remote Control Unit

Fig. 3.

1.	⏻	Turns the receiver ON/Standby
2.	🔇	Mutes the audio output of the receiver
3.	**[0~9]**	Channel number and numeric value input
4.	**SAT**	Satellite selection in normal viewing and channel mode
5.	**TV/R**	Toggles between TV and Radio mode
6.	**MENU**	Displays the menu in viewing mode or to go back one step in the menu
7.	**EXIT**	Go back one step in the menu/cancellation of current process/exit from main menu to viewing mode
8.	▲▼	Switches to the next/previous channel in viewing mode or moving the highlight up/down in the menu
9.	◀▶	Increasing/decreasing of the volume level in viewing mode or changing values of settings in the menu
10.	**OK**	Viewing mode: Displays the channel list. Menu: activation of the highlighted item
11.	**FAV**	Toggles between available favourite groups and all channels list
12.	**EPG**	Viewing mode: Displays the EPG (Electronic Program Guide)
13.	**V+/V-**	Increasing/decreasing of the volume level
14.	**INFO**	Press once to display channel number/name and now/next info. Press twice to display frequency/signal strength information.
15.	**AUDIO**	Displays the audio selection menu with selections for available languages and audio modes
16.	**TEXT**	Displays the teletext browser
17.	**P+/P-**	Switches to next/previous channel in viewing mode
18.	**RED/RCL**	Toggles between the current channel and the previous channel in viewing mode

19.	**GREEN/PAUSE**	Freezes/resumes the current broadcast
20.	**YELLOW/SUB**	Displays a list of available subtitling for the current channel
21.	**BLUE/V.F.**	Toggles between available HDMI screen resolutions
22.	⏸	Freezes/resumes the playback of recordings or music files
23.	⏮	Jumps to the previous track during MP3 playback
24.	⏭	Jumps to the next track during MP playback
25.	●	Starts recording of the current broadcast
26.	▶	Starts playback of the selected file in File Explorer
27.	⏩	Fast forward
28.	⏪	Fast rewind
29.	■	Stop

3.0 CONNECTIONS

3.1 Basic connection using a Scart cable

Fig. 4.

A Connect the LNB of your satellite dish to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.

B Connect one end of a good quality Scart cable to the TV SCART connector on your receiver and the other end to the SCART input of your TV.

C Plug the power cord to a suitable wall outlet.

3.2 Basic connection using an HDMI cable

Fig. 5.

A Connect the LNB of your satellite dish to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.

B Connect one end of a good quality HDMI cable to the HDMI output on your receiver and the other end to the HDMI input of your TV.

C Plug the power cord to a suitable wall outlet.

3.3 Connecting multiple fixed dishes using a DiSEqC 1.0 switch

Fig. 6.

A Connect the LNB's of your fixed dishes to the inputs of a DiSEqC 1.0 switch

B Connect the output or *"to receiver"* connector of the DiSEqC 1.0 switch to the SAT IN connector on your receiver.

C Refer to section 3.1 or 3.2 for TV and mains connections.

3.4 Connecting and using the IR extender

The included IR extender allows you to place the receiver out of sight (e.g. in a closed cabinet) while still being able to control it. Plug the IR extender into the IR connector on the back of the receiver. Locate the extender on a position giving it direct sight to the remote control. Once a suitable location is found, remove the protecting foil from the adhesive tape on the back of the extender and fix it by slightly pressing it down on the surface it should be placed on.

4.0 STARTING UP FOR THE FIRST TIME

Ensure that your satellite signal is of good quality and that all connections are sound. In case of difficulties or questions, please ask you local dealer for assistance. It is recommended to follow the *Setup Wizard* step by step. It will guide you through the basic installation and channel searching process. You can enjoy digital HD broadcasts within just a few minutes.

4.1 Language selection

After turning on the power for the first time, the language selection menu will appear. Choose your language with ▲▼ and confirm with **OK**. A welcome screen will now be displayed. Once you are ready, press **OK** to start the wizard. During any stage of the *Setup Wizard*, you can press **EXIT** to get back to the previous screen.

4.2 System Setup

Here you can set the *Country, Aspect Ratio, Conversion Mode and Subtitle Language*. Use ▲▼ to move the highlight and ◀▶ to change settings. To see a list of all possible settings for the highlighted option, press **OK**. Once all settings are made, move the highlight to *NEXT* and press **OK** to continue.

4.3 Satellite Selection

Use ▲▼ to highlight the satellite your dish is aimed at and press **OK** to confirm.
If your dish is aimed at Astra 1C, 1E, 1F, select *ASTRA 19.2E*. The *SCAN MODE* screen will appear.
If your dish is aimed at HOT BIRD, select *HOTBIRD 13E*.The *SCAN MODE* screen will appear.
If your dish is aimed at another satellite, select *OTHER*. You will be guided to the *Satellite Settings* menu. Refer to chapter 7.1.1 for instructions.

Note: If Germany or Austria is chosen as country and ASTRA 19.2E as satellite, German and Austrian pre-installed channels are available. An extra screen will then be displayed giving a choice between *Preinstalled & Scan* and *Satellite Scanning*. Choose *Preinstalled & Scan* to install the German or Austrian pre-installed channels and continue with the *Setup Wizard* as described from point 4.4 or choose *Satellite Scanning* to continue without pre-installed channels.

4.4 Scan Mode

Use ▲▼ to highlight the desired option and press **OK** to confirm.

All:	Will scan all available channels on the chosen satellite.
Free:	Will scan FTA (Free-To-Air) channels only.

4.5 Signal Adjust

This screen allows you to fine tune the alignment of your dish antenna for optimum reception.
Use ◀▶ to select the switch input the dish is connected to. (If the LNB of your dish is directly connected to the receiver, choose Switch Input 1) The bars on the bottom of the screen indicate the current signal strength and quality. A red bar indicates a bad signal. Green bars indicate a good signal. Yellow bars indicate that the signal condition is nearly acceptable.
Adjust your dish for maximum possible signal quality and strength. Once the signal cannot be improved anymore, fix the dish on this position and press **OK** to continue.

4.6 Channel Setup

Your receiver will now perform an automatic channel search. Once the process is finished, all found channels will be stored and the receiver will switch to the first found channel. You are now ready to enjoy your new receiver.

Note: If no channels were found during the automatic channel scan, the receiver will display the *Satellite Settings* menu. Please refer to chapter 7.1.1 for instructions.

5.0 QUICK GUIDE TO USING YOUR RECEIVER

We at STRONG understand that you can't wait to enjoy your new HD receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advice you to read the full manual to get the best performance from your STRONG HD receiver.

To turn your receiver ON or to Standby, use the ⏻ button on the remote control or the button on the left side of the front panel.

Choose the desired channel with the ▲▼ buttons or the **P+**/**P-** buttons. Alternatively, you can digit the channel number with the **[0~9]** buttons on the remote control. Or press **OK** in viewing mode to display the channel list.

The volume can be adjusted with the **V+**/**V-** buttons or the ◀▶ buttons.

6.0 OPERATION

In viewing mode, several features are available to make watching TV a true pleasure. This paragraph describes these features. Please also read chapter 7.0 to get familiar with the menu of your new receiver.

6.1 Changing channels

Your new receiver is equipped with three ways to change channels.

- via direct access
- via the channel list and
- via the **P+**/**P-** keys.

6.1.1 Direct access

To gain direct access to a certain channel, simply input its number with the **[0~9]** key's on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel.

6.1.2 Channel list

Press **OK** in viewing mode to display the *Channel List*. Use ▲▼ in the *Channel List* to highlight your channel of choice and press **OK** once to select the highlighted channel. Press **OK** again to leave the *Channel List*. The *Channel List* is equipped with a filter function to make finding your favourite channels easier. While in the *Channel List*, press **RED**. An alphabet banner will now be displayed. Use ▲▼ to select the first letter of the desired channel and **OK** to confirm. All channels beginning with the chosen letter will now be displayed.

The following keys are available in the *Channel list* and viewing mode:

TV/R:	Toggles between TV and radio channels
SAT:	changes the satellite
FAV:	to switch to one of the available favourite lists.

6.1.3 Using the P+/P- keys

P+ or ▲ will switch to a higher channel.
P- or ▼ will switch a lower channel.

6.2 Info Banner

At any time during viewing mode you can press the **INFO** button to get info about the current channel and program*. Press **INFO** twice to see technical details about the current channel.
* Program information is displayed when available. Availability depends from broadcast.

6.3 Selection of audio language

Some channels support a choice of different audio formats and/or languages. To select another audio stream, press **AUDIO** in viewing mode. A list with available audio streams will now be displayed. Use ▲▼ to select the desired stream and confirm with **OK**.

6.4 Teletext

Your receiver includes a fully featured Teletext. To access Teletext, press the **BLUE** button in viewing mode and use the **[0~9]** buttons to input the number of the page you wish to see. The coloured buttons of the remote control allow you to jump to selected pages directly, as indicated on the bottom of the teletext screen. Press **EXIT** to go back to viewing mode.

6.5 Subtitles

Some channels support a choice of different DVB subtitle languages. Press **SUB** in viewing mode to display a list of available subtitle languages.

6.6 Changing the video format

To change the video format while watching TV, simply press the **V.F** key in viewing mode. A list with available HDMI resolutions will pop up. Select the desired resolution using ▲▼. It is also possible to change the *Aspect Ratio* or *Conversion Mode* from the *Video Format* banner. Use the ◀▶ buttons to select the option of choice and use ▲▼ to change to the setting. Once all settings are made, press **OK** to apply.

6.7 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to watch programme schedules and information on screen and to mark programs for recording. Use ▲▼ to select the desired channel and ▶ to move the highlight to the program list. In the program list, use ▲▼ to select or scroll through programs. Use **OK** to display detailed information about the selected program. Use **RED** to display program information for the next day and **GREEN** to get back one day. Simply press **YELLOW** to get back to today's information.

Note: Availability of EPG data depends on broadcast.

Booking a program from EPG

Select a program as described above. Once the desired program is selected, press **BLUE**. This will lead you to the timer menu. All details are already filled in for you. Make a choice between *Play* or *Record* action and save the timer. Please refer to section 7.3.4 for details.

6.8 Instant Recording

Your new receiver allows you to make an instant recording of the program you are watching. Simply press ● to start the recording. To enter the duration for the recording, press ● again. Use the **[0~9]** keys to input the desired recording time.

During the recording a banner showing the elapsed recording time will be shown on the upper right of your TV screen. To stop the recording, press ■.

* Please connect an USB storage device with sufficient free space before you start a recording. For recording HD broadcast, a high speed device is needed.

6.9 Timeshift

The Timeshift function allows you to pause live broadcasts and resume normal watching without missing anything. Press ❚❚ to freeze the current broadcast. Press ❚❚ again to start time shifted playback. To stop Timeshift, press ■.

Note: The Timeshift will only work correctly when a fast USB storage device such as an USB2.0 HDD is connected to the receiver. Distorted picture and / or audio during Timeshift indicate a low USB device speed. STRONG cannot guarantee for USB devices used. Especially when Timeshift is activated at channels with high data rate (High quality SD/HD), STRONG cannot guarantee an accurate Playback of the Timeshift file.

7.0 MAIN MENU

All important settings and features of your receiver can be operated from the *Main Menu*. It consists of the following sub-menus: *Installation, Setup, Channel, Advanced and Games*. Use ◀▶ to select a sub-menu and ▲▼ to choose an option. Press **OK** to advance to the chosen submenu. Press **MENU** in viewing mode to display the *Main Menu*.

7.1 Installation

The installation menu allows you to change satellite settings and to search for channels. It consists of the following sub-menus: *Satellite Settings*, *Auto Scan*, *Manual Scan* and *Satellite Edit*. Choose the desired sub menu with ▲▼ and press **OK** to advance.

7.1.1 Satellite Settings

Use this menu to change the settings for a given satellite and to configure the parameters for the used antenna Use ▲▼ to highlight *Satellite* and ◀▶ to set the satellite you wish to change the settings for. To see a list with all available satellites, press **OK** when the highlight is on *Satellite*. Use ▲▼ to highlight

Transponder and ◀▶ to set the desired transponder. Signal bars indicating signal quality and strength can be found on the bottom of the screen. These bars show the signal conditions for the chosen satellite and transponder. You can now adjust the following settings: *LNB type, LO Frequency, LNB power, Band (22 kHz), Switch Type, Switch Input, Dish Mode and Dish Position*. Once all settings are made, press **EXIT** to get to the previous menu or use ▲▼ to highlight *Go To* and ◀▶ to select *Auto Scan* or *Manual Scan* to advance to *Auto Scan* or *Manual Scan*.

A confirmation banner will now be displayed. Press **OK** to confirm the made changes or **EXIT** to discard.

7.1.2 Auto Scan

Use this menu to perform an automatic channel search on one or more satellites.
On the left of the screen, a list with satellites is displayed. Use ▲▼ to highlight the satellite(s) you wish to scan and press **OK** to mark the highlighted satellite. Press **OK** again to unmark a marked satellite.

Note: you can mark multiple satellites. *Auto Scan* will search all marked satellites for available channels.

Now select the desired scanning options on the right of the screen. Use ▶ ▲▼ to highlight and **OK** to set an option.

Scan Mode All:	scan all channels
Free:	scan Free-To-Air channels only
Scrambled:	scan scrambled channels only.
Service Type All:	scan TV and Radio channels
TV scan:	TV channels only
Radio:	scan radio channels only.
Network Search Disabled:	no network search
Enabled:	network search will be performed.

Once all settings are made, press the **GREEN** button on the remote control to start the scan or **EXIT** to quit without scanning. All newly found channels will be stored at the end of the channel list.

Tip: **Network Search:** If *Disabled* is selected, the receiver will search only for channels available from the preset transponder list of the selected satellite. If it is set to *Enabled*, the receiver will perform an additional search for channels from the NIT table (NIT= Network Identification Table). Use this option to receive new launched channels from the selected satellite.

7.1.3 Manual Scan

Use this menu to scan a single transponder only.
The following can be set: *Satellite, Transponder, Frequency, Polarisation, Symbolrate, Scan Mode, Service Type and Network search*. Use ▲▼ to move the highlight to the chosen setting and ◀▶ to change its value. Once all settings set correct, press the **GREEN** button to start scanning or **EXIT** to quit. All newly found channels will be stored at the end of the channel list.

Note: Press **YELLOW** in the *Manual Scan* menu to make settings for a PID search. *Scan mode, Service type and Network search* will then be replaced by settings for *Video PID, Audio PID and PCR PID*. For information on PID values, please visit websites like: www.lyngsat.com or www.kingofsat.net

7.1.4 Satellite Edit

Here you can edit transponder data or add a new satellite.
On the left of the screen, a list with all available satellites is displayed. The right of the screen displays a list will all available transponders for the highlighted satellite.

Adding or editing a transponder

Use ▲▼ to highlight the desired satellite. Press ▶ to move the highlight to the transponder list. Press **YELLOW** to add a transponder or use ▲▼ to highlight the transponder to be edited and then press **BLUE** to enter the edit screen. Use ▲▼ to navigate in the edit screen and use ◀▶ respectively **[0~9]** to change the settings. Once all settings are made, press **GREEN** to save or **EXIT** to quit without saving.

Editing an existing satellite

Use ▲▼ to highlight the satellite you wish to edit. Press **BLUE** to go to the *Satellite Edit* screen. To edit the name of the satellite, use ▲▼ to highlight the name and press **OK**. A keyboard will pop up. Use ▲▼ ◀▶ to navigate and **OK** to input the chosen character. Once finished press **GREEN** to save the changes or **EXIT** to quit without saving. To edit the position of the satellite, use ▲▼ to move the highlight to *Position* and use the **[0~9]** buttons to input the new position. To change the location, use ▲▼ to highlight *Location* and use ◀▶ to change the location. Possible settings are: *East* and *West*. Once all settings are made press **GREEN** to save or **EXIT** to quit without saving.

Adding a satellite

To add a satellite, make sure the highlight is not in the transponders list (press ◀ in case of doubt) and press **YELLOW**. The procedure for adding a satellite is the same as for editing a satellite.

7.2 Setup

Use the *Setup* menu to configure the system settings of your receiver. The following sub-menus are available: *Language, Output Options, Time Setting, Parental Control and OSD Display*. Choose the desired submenu with ▲▼ and press **OK** to advance.

7.2.1 Language

Here you can set the preferred *Display, Audio* and *Subtitle* languages and *Country* setting. Use ▲▼ to highlight the setting you wish to change and ◀▶ to change the value of the highlighted setting. Press **OK** for a list with all available options for the chosen setting.

Display: This setting affects the menu language of your receiver. All menu's and messages will be displayed in this language.

Audio: is the preferred audio language. The receiver will automatically switch audio to the preferred language whenever available.

Subtitle: Whenever available, subtitles will be displayed in the selected language.

Country: Here you can set your country of residence.

Once all settings are made, press **EXIT** to leave the *Language* menu. A confirmation banner will be shown. Press **OK** to save your settings or **EXIT** to discard.

7.2.2 Output Options

This is the menu to configure the audio and video outputs of your receiver. Use ▲▼ to highlight the setting you wish to change and ◀▶ to change the value of the highlighted setting. Press **OK** for a list with all available options for the chosen setting.

TV Standard: Set the standard corresponding to your TV set. Available options are: *Auto*, *NTSC, PAL and SECAM*.

Aspect Ratio: Use this option to set the aspect ratio of your TV set. Available options are: *4:3 and 16:9*.

Conversion mode: Use this option to set the preferred way of converting 16:9 broadcasts to 4:3 TV format. You can choose between the following options: *Letter-box* (the full 16:9 picture will be displayed on your 4:3 TV set with black bars above and below the picture.), *Pan and scan* (The centre of the 16:9 picture will be displayed full-screen on your 4:3 TV) and *Combined* (Combination of Letter-box and Pan and scan.)

SCART Mode: Select *RGB* for the best picture quality or *CVBS* in case your TV doesn't support RGB.

Digital Audio: Defines the format available on the S/PDIF output of your receiver. When set to *PCM*, the digital output will always output PCM stereo regardless of the broadcasted audio format. The *Auto* setting will pass all incoming digital audio through the digital output. Use this option if you have your receiver connected to a digital surround amplifier. The digital output can be switched off by setting *Digital Audio* to *Off*.

Video Format: This setting is only active when the receiver is connected to the TV set via HDMI. It allows you to set the preferred HDMI screen resolution. Available options depend from your TV set.

Once all settings are made, press **EXIT** to leave the Output Options menu. A confirmation banner will be shown. Press **OK** to save your settings or **EXIT** to discard.

7.2.3 Time Setting

This menu allows you to set the way the receiver collects and adjusts the time. You can also adjust the *Auto Power Down* function here. Use ▲▼ to highlight the setting you wish to change and ◀▶ or **[0~9]** to change the value of the highlighted setting. Press **OK** for a list with all available options for the chosen setting.

Time Display: Defines when the front panel display will show the clock. Possible settings are: *Off* and *Stand-by only*.

Use GMT: *On*: the receiver will use broadcast time. Use the *Time Zone* setting to define the deviation from GMT time. *Summer Time* can be set to *On* or *Off*.

Use GMT: *Off*: Allows you to enter the time settings manually. Use the **[0~9]** buttons to set the current time in the Local Time option. Use ▲▼ to move the highlight to *Local Date* and press **OK**. A calendar will be displayed. Use ▲▼◀▶ to select the actual date and press **GREEN** to confirm.

Auto power down

Auto Power Down is a new, power saving feature that helps you with reducing power consumption. It will switch off the receiver when no command is given for at least the set time. Possible settings are: 1~6 hours with one hour steps and *Disabled*.

Once all settings are made, press **EXIT** to leave the *Time Setting* menu. A confirmation banner will be shown. Press **OK** to save your settings or **EXIT** to discard.

7.2.4 Parental Control

In this menu you can enable or disable the menu lock function and change the PIN code. Use ▲▼ to highlight the setting you wish to change and ◀▶ or **[0~9]** to change the value of the highlighted setting.

Menu Lock: If Menu Lock is set to *Enabled*, items in the *Main Menu* are only accessible after entering the PIN. (Default PIN: 0000) When set to *Disabled*, all menu items are freely accessible.

Change PIN Code: Use this function to set your own personal PIN code. Highlight Change *PIN Code* with ▲▼ and press **OK** to advance. A banner with three fields pops up: Enter your old PIN at *PIN Code*. (Default PIN: 0000) Enter your new PIN at *Enter New* and again at *Reconfirm*. A successful change of PIN is confirmed by an on screen message. Use **EXIT** to go back to the previous menu.

Once all settings are made, press **EXIT** to leave the *Parental Control* menu. A confirmation banner will be shown. Press **OK** to save your settings or **EXIT** to discard.

7.2.5 OSD Display

This menu allows you to set the OSD (On Screen Display) functionality of your receiver according to your wishes. Use ▲▼ to highlight the setting you wish to change and ◀▶ or **[0~9]** to change the value of the highlighted setting. Press **OK** for a list with all available options for the chosen setting.

Banner Show: When set to *On*, the info banner displaying channel name, channel number and Now/Next information will be shown every time you change channels. To disable the banner, set this item to *Off*.

Banner time (sec.): defines the time after which the OSD banners time out. Possible settings are: *1~10 seconds*.

Transparency: Defines how transparent the On Screen Display and banners are. Possible settings are: *0%, 25%, 50% and 100%*.

Once all settings are made, press **EXIT** to leave the *OSD Display* menu. A confirmation banner will be shown. Press **OK** to save your settings or **EXIT** to discard.

Tip: For detailed information about the "*Info banner*" please refer to chapter 6.2 Info Banner

7.3 Channel

Within this menu you can manage channels and configure favourites, play files from a connected USB storage device and to set timers. The Channel menu consists of the following sub-menus: *Sort and Edit, Favourite, File Explorer and Timer.* Choose the desired sub menu with ▲▼ and press **OK** to advance.

7.3.1 Sort and Edit

Use this menu to manage channels in the channel list. Set the satellite you wish to manage channels on in the left column. Select *All Sat* to display the channel list with channels from all installed satellites.

Sorting a channel list

Use ▲▼ to select the desired satellite and **TV/R** to toggle between TV and radio channels. Press **YELLOW** to display the *Sort in Order* banner. Use ▲▼ to select the sorting method of your choice and **OK** to confirm.

(Un) locking or deleting all channels in the current list

Use ▲▼ to select the desired satellite and **TV/R** to toggle between TV and radio channels.
To delete all channels in the chosen list, press **RED**. All channels in the chosen list will be marked for deletion. Press **GREEN** to confirm this action.
To lock all channels in the chosen list, press **OK**. All channels in the chosen list will be marked as locked. Press **GREEN** to confirm this action. Locked channels can only be accessed after entering the correct PIN code. (Default PIN: 0000)

Deleting, editing or moving one channel only

Use ▲▼ to select the desired satellite and **TV/R** to toggle between TV and radio channels. Use ▶ to move the highlight to the channel list on the right of the screen. Select the channel you wish to move or edit with ▲▼. To mark the selected channel for deletion, press **RED**. Press **RED** again to unmark the channel. Press **OK** to lock the selected channel. One more press on **OK** will unlock the channel again. To move a channel to another position on the channel list, press **YELLOW**. Now use the ▲▼ keys to select a new location for the chosen channel. Press **OK** to confirm the move. To rename a channel, press **BLUE**. A banner showing a keyboard will now be displayed. Use ▲▼ ◀▶ to navigate and **OK** to input the chosen character. Once finished, press **GREEN** to save the changes or **EXIT** to quit without saving.

7.3.2 Favourite

Your new receiver allows you to store channels in up to 8 favourite lists. Due to the large number of channels available on satellite nowadays, this can be a very useful function.
Use **TV/R** to toggle between TV and radio channels. Select the channel you wish to add to a group with ▲▼. Now select the group you wish to add the channel to with **FAV**. Press the **FAV** button multiple times to move through all available favourite groups. The following groups are available: *News, Movie, Music, Sport, Education, Life, Child and Leisure*. Press **OK** to place the highlighted channel in the selected favourite group. To remove a channel from a group, use ▲▼◀▶ to highlight the desired channel in the group and press **OK**.
Once all settings are made, press **EXIT** to leave the menu. A confirmation banner will be shown. Press **OK** to save your settings or **EXIT** to discard.

Note: Removing a channel from a favourite group doesn't remove the channel from the channel list.

7.3.3 File Explorer

The *File Explorer* can be used for the playback of previously recorded programs, to show photos or for playing MP3 music files.

When the *File Explorer* is opened, the name of your connected USB device will be shown on the right side of the window. Press **OK** or ▶ to access the USB device. The content of the device will now be displayed. Only files suitable for playback on your receiver will be displayed. Use ▲▼ to select a file or folder. Press **OK** to start playback or to open the selected folder. To get back to the previous folder, use **EXIT** or ◀. Alternatively you can also select the folder marked with two points ".." and press **OK**.
To format the connected USB device, press the **YELLOW** button when in the root folder of the connected device. Please note that the format function will only work on Hard Disk Drives.
Before disconnecting your USB device, please press the **GREEN** button to *"Safely remove USB device"*.

⚠ **WARNING:** The Format function will delete all records, data and information from your USB device. STRONG will not take any responsibility for damaged or lost data on the USB device. Please make a backup copy of important data on your USB device before using it with your receiver.

Playback of previously recorded programs
All recorded programs will be placed in the DVR folder on your USB device. Open this folder as described above and select the desired recording. Press **OK** to start playback. The following functions are available during playback: Press ❚❚ to pause the playback. Press ❚❚ again to resume playback. Use ▶▶ and ◀◀ for fast forward or fast rewind playback. Press **EXIT** or ■ to get back to the *File Explorer*.

Viewing photos
Your receiver allows you to watch a slide show with all photo's available in the chosen folder. To use the slide show: choose a folder with photo files. Press **YELLOW** to open the slide show settings window. Here you can adjust the *Transition mode and Duration*. To disable the slideshow mode, set *Duration* to *Disabled*. Once all settings are made, press **GREEN** to save and exit the Slideshow settings banner.

Select the desired Photo file and press **OK** to view. Press **EXIT** to get back to the *File Explorer*.

Listening to MP3 music
Select the desired MP3 file and press **OK** to start playback.
During playback, the following functions are available:

◀❙	starts playback of the next MP3.
❙▶	starts playback of the previous MP3.
■	stops playback.
◀◀ **shuffle:**	All files in the directory will be played back in random order.
▶▶ **repeat:**	Press once for single track repeat or twice to repeat all files.

To exit the file explorer: Use **EXIT** to get back to the Root directory of your USB device.
Press **EXIT** once more to leave the *File Explorer*.

Note: Please consider that *File Explorer* needs a correctly formatted USB device in order to work with your receiver.

Playback of MP3 music will continue as long as the *File Explorer* is active. This allows you to listen to MP3 music while watching photos.

Tip: The *File Explorer* will only show files when a correctly formatted USB device is connected to the receiver.

7.3.4 Timer

Timers can be used to schedule recordings or to switch to a certain channel at a desired moment. It will help you not to miss your favourite events.

Use ▲▼ to select one of the eight available timers. Press **OK** to advance. The *Edit Timer* screen will now be displayed. Use ▲▼ to switch between settings and ◀▶ or **[0~9]** to adjust the value of a setting.

Cycle: Choose between *Once*, *Everyday* or *Weekly*.

Date: With *Cycle* set to *Once*: press **OK** to display the calendar. Use ▲▼◀▶ to pick the date for the recording and confirm with **OK**.
With *Cycle* set to *Weekly*: Use ◀▶ to select the day of the week at which the timer will start.

Time: Use the **[0~9]** buttons to enter the time at which the timer will start.

Action: Use ◀▶ to choose between *Play* or *Record*. Select *Record* to set a timed recording.

Channel: Press **OK** to display the channel list and use ▲▼ to select the channel that the receiver should use for the timed action.

Duration: Use the **[0~9]** buttons to digit the duration of the timer.

Once all settings are made, press **EXIT** to leave the menu. A confirmation banner will be shown. Press **OK** to save the timer or **EXIT** to discard.

Deleting a timer

In order to delete a set timer, select it with ▲▼ and press **RED**. A confirmation banner will now be shown. Press **OK** to delete or **EXIT** to cancel.

Note: In case one timer is in conflict with another or if the set time has already passed, the receiver will display a warning and asks you how to solve the conflict.

7.4 Advanced

This sub menu gives you access to advanced functions such as updating and factory reset. The following options are available: *Common Interface*, *System Info, USB Update, OTA and Factory Reset*.

7.4.1 Common Interface

The receiver is equipped with one slot of Common Interface which have access to the scrambled the pay per view services with various conditional access modules and a valid smart card.

Depending from module you can read module information, smart card information, download new software for module and set up module language.

The programs that can be descrambled are determined by the conditional access module and smart card you use.

7.4.2 System Info

Displays valuable information about the software and hardware version of your receiver and our web address www.strong.tv . A customer support agent might ask for the information given in this screen. Press **EXIT** to leave the *System Info* screen.

7.4.3 USB Update

This function allows you to perform a system upgrade from an USB device. You can also use it to export your channel list to a connected USB device.

Exporting channel data

To export all channel data, enter *USB Update* and press **BLUE**. Follow the directions on screen. This function requires a correctly formatted USB storage device to be connected to the receiver.

Software upgrade

The software files should be placed in the root directory of the device. Connect the USB device to the receiver and enter USB update. An attention banner will now be displayed. Press **OK** to start the update.

⚠ **WARNING:** NEVER power off the receiver or remove the USB device during the software update process. Doing so might cause irreparable damage to your receiver and will void your warranty.

7.4.4 OTA

The OTA (Over the Air) function allows you to search for software updates available on satellite. Please ask your local Strong dealer or visit our website for according information.
In the OTA menu make all necessary settings (*Satellite, Frequency, Polarisation and Symbolrate*) and press **GREEN** to start the update process.

⚠ **WARNING:** NEVER power off the receiver or pull the mains plug during the software upgrade process. Doing so might cause irreparable damage to your receiver and will void your warranty.

7.4.5 Factory Reset

A factory reset will restore your receiver to the factory default settings. To reset the receiver, you have to enter your PIN code (Default PIN:0000). After the reset, the receiver will start up in the *Setup Wizard*.

⚠ **WARNING:** A factory reset will permanently delete all your personal settings, timers and stored channels. Please consider this before you perform a factory reset.

7.5 Games

Your receiver is equipped with 4 games.
To play a game, select one of the four available games (*Sudoku, Tetris, Snake or Box*) and press **OK** to enter the game. Please follow the directions on screen.

8.0 TROUBLESHOOTING

There may be various reasons for abnormal operation of the receiver. Please check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your local Serviceline or STRONG dealer. Alternatively you can send a support mail via our website: www.strong.tv. NEVER open or disassemble your receiver. This may cause a dangerous situation and will void the warranty.

Symptom	Cause	Remedy
The display on front panel does not light up.	The power cord is not plugged in.	Check that the power cord is plugged in to the wall outlet. Make sure power switch on rear panel is in ON position.
	Receiver switched to STBY and the display function is switched OFF.	Check if receiver is in STBY and the setting within the menu Setup>Time Setting>Time Display is set to OFF
No picture or sound	Wrong connection or setting of the Audio/Video output of the receiver to TV.	Connect the Audio/Video output of the receiver to TV correctly and check the adjusted settings in the menu Setup> Output Options.
	Audio muting.	Press the **MUTE** button.
	TV power off.	Turn TV on.
No picture	The receiver can't receive the signal.	Check the antenna cable, replace the cable, or connect the cable to the receiver tightly.
	Incorrect values of some tuner parameters.	Set the values of tuner parameters correctly in menu Installation> *Satellite Settings*.
	Wrong direction of the dish.	Check the signal strength with a spectrum analyzer and adjust your dish correctly.
The remote control does not work	The batteries of the remote control are not inserted, wrongly inserted or exhausted.	Check whether the batteries are inserted correctly or exhausted, if so replace the batteries in the remote control.
The USB storage device is not working properly.	Wrong formatted.	Format USB device by receiver in menu Channel>File Explorer.
The external USB HDD does not start.	Power consumption is too high.	Connect an extra power supply adapter to your USB HDD device.
The receiver switches to STBY automatically.	*Auto* Power Down function is activated and reached the adjusted time (default 3h).	In the menu Setup>Time Setting you can adjust the *Auto* Power Down time or disable it.

9.0 SPECIFICATIONS

Demodulator

Demodulation:	QPSK, 8 PSK
Input Symbol Rate:	DVB-S QPSK:1~45 Ms/s
DVB-S2 8PSK/QPSK:	10~30 Ms/s
FEC Decoder:	*Auto*,1/2, 2/3, 3/4, 5/6, 7/8 in DVB-S mode; 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 in DVB-S2 mode 2/3, 3/5, 3/4, 5/6, 8/9, 9/10 in DVB-S2 8PSK mode.

Video Decoder

Profile Level:	MPEG-2 MP@ML, MP@HL, MPEG-4 H.264/AVC
Input Rate:	Max. 90 Mbit/s
Aspect Ratio:	4:3, 16:9, Pan & Scan, Letterbox, Combined
Frame Rate:	25 Hz for PAL, 30 Hz for NTSC
Video Resolution:	576p, 720p, 1080i

Audio Decoder

Audio Decoding:	MPEG-1 Layer 1&2, MPEG 4 H.264 AAC, AC3 Downmix
Audio Mode:	Mono L/R, Stereo, AC 3
Frequency Response:	20 Hz~20 kHz, <+/-2 dB 60 Hz ~ 18 kHz <+/- 0.5 dB
Sampling Rate:	32, 44.1, 48 kHz

Tuner

Connector:	1xF Type , IEC169-24, Female
Input Frequency Rage:	950-2150 MHz
RF Impedance:	75 Ohm unbalanced
Signal Level:	-75 to -25 dBm
LNB Power:	13 / 18 V DC (+/-5%)

Max. 0.5 A max, overload protected

DiSEqC Versions:	1.0, 1.1, 1.2, GOTO X, Tone Burst.

System & Memory

CPU:	STi7111
Flash Memory:	8 MBytes
System Memory:	256 MBytes

Connectors

SAT IN; SAT OUT
TV SCART (RGB, CVBS, Audio L/R Output with volume control)
HDMI (V/A-Output) Type A Version 1.0 HDCP 1.1
RCA Output - Audio L/R & Video Output
S/PDIF Out (Coaxial, Optical)
IR Extender input
USB 2.0, Type A Connector
CI+ compatible slot

General Data

Input Voltage Range:	100 - 240 V AC, 50/60 Hz
Power Consumption:	max. 20 W, typ. 7.1 W (without external device)
Power consumption in stand-by:	
	0.83 W (without external device)
Operating Temperature:	0° ~ +40°C
Storage Temperature:	-10° ~ +70°C
Operating Humidity Range:	25 - 75%, RH, non-condensing
Size (W × H × D) in mm:	230 x 165 x 44
Weight:	0.79 kg

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